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US 20050288667 A1	US- PGPUB	20051229	17	Ablation systems including insulated energy transmitting elements	606/41		Thompson, Russell B. et al.
US 20050251123 A1	US- PGPUB	20051110		Low temperature lesion formation apparatus, systems and methods	606/21		Eberl, Greg et al.
US 20050251122 A1	US- PGPUB	20051110	32	Clamp based low temperature lesion formation apparatus, system and methods	606/21		Swanson, David K.
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US 20050215992 A1	US- PGPUB	20050929		Steerable loop structures for supporting diagnostic and therapeutic elements in contact with body tissue	606/41	600/374	Jenkins, Thomas R. et al.
US 20050187544 A1	US- PGPUB	20050825		Cooled probes and apparatus for maintaining contact between cooled probes and tissue	606/41	604/35; 606/49	Swanson, David K. et al.
US 20050177151 A1	US- PGPUB	20050811		Irrigation sheath	606/41		Coen, Thomas P. et al.
US 20050171536 A1	US- PGPUB	20050804		Apparatus for mapping and coagulating soft tissue in or around body orifices	606/49	600/374; 600/381	Phan, Huy D. et al.
US 20050143727 A1	US- PGPUB	20050630		Surgical probe for supporting inflatable therapeutic devices in contact with tissue in or around body orifices and within tumors	606/41		Koblish, Josef V. et al.
US 20050119654 A1	US- PGPUB	20050602		Clamp based methods and apparatus for forming lesions in tissue and confirming whether a therapeutic lesion has been formed	606/49	607/122	Swanson, David K. et al.
US 20050119653 A1	US- PGPUB	20050602		Surgical methods and apparatus for forming lesions in tissue and	606/49	607/122	Swanson, David K.

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US 20050119649 A1	US- PGPUB	20050602		Self-anchoring surgical methods and apparatus for stimulating tissue	606/41		Swanson, David K.
US 20050119648 A1	US- PGPUB	20050602		Surgical methods and apparatus for stimulating tissue	606/41		Swanson, David K.
US 20050119545 A1	US- PGPUB	20050602		Surgical methods and apparatus for maintaining contact between tissue and electrophysiology elements and confirming whether a therapeutic lesion has been formed	600/374	606/49; 607/122	Swanson, David K.
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US 20040049182 A1	US- PGPUB	20040311		Method and apparatus for positioning a diagnostic or therapeutic element within the body and tip electrode for use with same	606/41		Koblish, Josef V. et al.
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US 20030018330 A1	US- PGPUB	20030123		Systems and methods for creating long, thin lesions in body tissue	606/41		Swanson, David K. et al.
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US 20020151889 A1	US- PGPUB	20021017		Surgical method and apparatus for positioning a diagnostic or therapeutic element within the body	606/41	606/49; 607/99	Swanson, David K. et al.
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US 20020128640 A1	US- PGPUB	20020912		Internal indifferent electrode device for use with lesion creation apparatus and method of forming lesions using the same	606/32	606/34	Swanson, David K.
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US 20010007071 A1	US- PGPUB	20010705		Surgical probe for supporting inflatable therapeutic devices in contact with tissue in or around body orifices and within tumors	606/41	607/113; 607/99	Koblish, Josef V. et al.
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US 6565511 B2	USPAT	20030520		Systems for recording use of structures deployed in association with heart tissue	600/437		Panescu; Dorin et al.
US 6542773 B2	USPAT	20030401		Interactive systems and methods for controlling the use of diagnostic or therapeutic instruments in interior body regions	600/509		Dupree; Daniel A. et al.
US 6540743 B2	USPAT	20030401		Resilient radiopaque electrophysiology electrodes and probes including the same	606/41	600/374	Olson; Steven L. et al.
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US 6508765 B2	USPAT	20030121		Ultrasound-guided ablation catheter and methods of use	600/439	600/467; 601/2; 606/41; 607/99	Suorsa; Veijo T. et al.
US 6500172 B1	USPAT	20021231		Systems and methods for controlling tissue ablation using multiple temperature sensing elements	606/31	600/549; 606/42; 607/102	Panescu; Dorin et al.
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US 6464699 B1	USPAT	20021015		Method and apparatus for positioning a diagnostic or therapeutic element on body tissue and mask element for use with same	606/41	606/32; 606/34	Swanson; David K.
US 6456864 B1	USPAT	20020924		Systems and methods for guiding movable electrode elements within multiple-electrode structures	600/374	600/509; 606/34; 606/41; 607/122	Swanson; David K. et al.
US 6454766 B1	USPAT	20020924		Microporous electrode structure and method of making the same	606/41	606/45; 606/49	Swanson; David K. et al.
US 6447506 B1	USPAT	20020910		Systems and methods for creating long, thin lesions in body tissue	606/41	606/42; 607/101	Swanson; David K. et al.
US 6428537 B1	USPAT	20020806		Electrophysiological treatment methods and apparatus employing high voltage pulse to render tissue temporarily unresponsive	606/41	607/122	Swanson; David K. et al.
US 6428536 B2	USPAT	20020806		Expandable-collapsible electrode structures made of electrically conductive material	606/34	600/374; 606/41; 607/105; 607/113; 607/122; 607/99	Panescu; Dorin et al.
US 6425895 B1	USPAT	20020730		Surgical apparatus for positioning a diagnostic or	606/41	606/49; 607/99	Swanson; David K. et

				therapeutic element within the body			al.
US 6421556 B2	USPAT	20020716		Systems and methods for conducting electrophysiological testing using high-voltage energy pulses to stun tissue	600/510		Swanson; David K.
US 6413234 B1	USPAT	20020702		Assemblies for creating compound curves in distal catheter regions	604/95.04	600/434	Thompson; Russell B. et al.
US 6402746 B1	USPAT	20020611		Branched structures for supporting multiple electrode elements	606/41	128/898; 607/122	Whayne; James G et al.
US 6395325 B1	USPAT	20020528		Porous membranes	427/2.11	427/2.24; 427/2.3; 427/2.31; 427/243; 427/244; 427/245; 427/282; 427/407.1	Hedge; Anant V. et al.
US 6389311 B1	USPAT	20020514		Systems and methods using annotated images for controlling the use of diagnostic or therapeutic instruments in interior body regions	600/523		Whayne; James G. et al.
US 6387092 B1	USPAT	20020514		Systems and methods to identify and disable re-used single use devices based on time elapsed from first therapeutic use	606/32	606/41; 606/42	Burnside; Robert R. et al.
US 6379366 B1	USPAT	20020430		Devices for installing stasis reducing means in body tissue	606/139		Fleischman; Sidney D. et al.
US 6370435 B2	USPAT	20020409		Systems and methods for examining the electrical characteristic of cardiac tissue	607/122	600/374; 600/547; 606/41; 607/101	Panescu; Dorin et al.
US 6369465 B1	USPAT	20020409		Power supply for use in electrophysiological apparatus employing high-voltage pulses to render tissue temporarily unresponsive	307/112	307/115	Swanson; David K.



US 6360128 B2	USPAT	20020319		Cardiac mapping and ablation systems	607/122	128/898; 600/374	Kordis; Thomas F. et al.
US 6357447 B1	USPAT	20020319		Surface coatings for catheters, direct contacting diagnostic and therapeutic devices	128/898	600/374; 606/41	Swanson; David K. et al.
US 6353751 B1	USPAT	20020305		Systems and methods for guiding movable electrode elements within multiple-electrodes structures	600/374	600/509; 606/34; 606/41; 607/122	Swanson; David K. et al.
US 6330473 B1	USPAT	20011211		Structures for supporting porous electrode elements	604/21	606/41; 607/113; 607/122; 607/153; 607/99	Swanson; David K et al.
US 6293943 B1	USPAT	20010925		Tissue heating and ablation systems and methods which predict maximum tissue temperature	606/41	606/27; 606/31; 606/33; 606/34; 606/42	Panescu; Dorin et al.
US 6289239 B1	USPAT	20010911		Interactive systems and methods for controlling the use of diagnostic or therapeutic instruments in interior body regions	600/523		Panescu; Dorin et al.
US 6287301 B1	USPAT	20010911		Catheter having improved torque transmission capability and method of making the same	606/33	604/524	Thompson; Russell B. et al.
US 6267760 B1	USPAT	20010731		Surgical method and apparatus for positioning a diagnostic or therapeutic element within the body and forming an incision in tissue with minimal blood loss	606/49	606/41	Swanson; David K.
US 6256540 B1	USPAT	20010703		Systems and methods for examining the electrical characteristic of cardiac tissue	607/122	600/374; 600/547; 606/41; 607/101	Panescu; Dorin et al.
US 6256525 B1	USPAT	20010703		Catheter distal end assemblies with bonded surface coatings	600/373	600/374; 606/41	Yang; Yi et al.
US 6248075 B1	USPAT	20010619		Method and apparatus for fixing the anatomical	600/463	600/466	McGee; David L. et

				orientation of a displayed ultrasound generated image			al.
US 6245068 B1	USPAT	20010612		Resilient radiopaque electrophysiology electrodes and probes including the same	606/41	600/374	Olson; Steven L. et al.
US 6245065 B1	USPAT	20010612		Systems and methods for controlling power in an electrosurgical probe	606/40	606/49; 606/50	Panescu; Dorin et al.
US 6245061 B1	USPAT	20010612		Tissue heating and ablation systems and methods using self-heated electrodes	606/27	606/101; 606/41; 606/96	Panescu; Dorin et al.
US 6241754 B1	USPAT	20010605		Composite structures and methods for ablating tissue to form complex lesion patterns in the treatment of cardiac conditions and the like	607/99	600/373; 607/122	Swanson; David K. et al.
US 6241724 B1	USPAT	20010605		Systems and methods for creating lesions in body tissue using segmented electrode assemblies	606/41	600/374; 606/34; 607/122; 607/99	Fleischman; Sidney D. et al.
US 6237604 B1	USPAT	20010529		Systems and methods for preventing automatic identification of re-used single use devices	128/897		Burnside; Robert R. et al.
US 6233491 B1	USPAT	20010515		Cardiac mapping and ablation systems	607/122	600/374	Kordis; Thomas F. et al.
US 6221013 B1	USPAT	20010424		Systems for recording use of structures deployed in association with heart tissue	600/437	600/424	Panescu; Dorin et al.
US 6216043 B1	USPAT	20010410		Asymmetric multiple electrode support structures	607/122	600/374; 606/41	Swanson; David K. et al.
US 6214002 B1	USPAT	20010410		Structures and methods for deploying electrode elements	606/41	600/374; 607/122; 607/99	Fleischman; Sidney D. et al.
US 6212426 B1	USPAT	20010403		Systems and methods for conducting electrophysiological testing using high-voltage energy pulses to stun	600/510	606/34	Swanson; David K.

			tissue			
US 6206831 B1	USPAT	20010327	Ultrasound-guided ablation catheter and methods of use	600/439	600/467; 601/2; 606/41; 607/99	Suorsa; Veijo T. et al.
US 6197021 B1	USPAT	20010306	Systems and methods for controlling tissue ablation using multiple temperature sensing elements	606/31	600/549; 606/42; 607/102	Panescu; Dorin et al.
US 6188924 B1	USPAT	20010213	Systems and methods for acquiring making time-sequential measurements of biopotentials sensed in myocardial tissue	600/510		Swanson; David K. et al.
US 6183468 B1	USPAT	20010206	Systems and methods for controlling power in an electrosurgical probe	606/40	606/34; 606/49	Swanson; David K. et al.
US 6179835 B1	USPAT	20010130	Expandable-collapsible electrode structures made of electrically conductive material	606/41	600/374; 606/34; 607/105; 607/113; 607/122; 607/99	Panescu; Dorin et al.
US 6171306 B1	USPAT	20010109	Systems and methods for forming large lesions in body tissue using curvilinear electrode elements	606/41	600/374; 607/101	Swanson; David K. et al.
US 6165169 A	USPAT	20001226	Systems and methods for identifying the physical, mechanical, and functional attributes of multiple electrode arrays	606/1	606/41; 607/122	Panescu; Dorin et al.
US 6163716 A	USPAT	20001219	Cardiac mapping and ablation systems	600/374	128/898; 29/592.1; 606/41; 607/122	Edwards; Stuart D. et al.
US 6162184 A	USPAT	20001219	Systems and methods for sensing temperature within the body	600/549	606/31; 606/42	Swanson; David K. et al.
US 6152955 A	USPAT	20001128	Implantable conformal coil patch electrode with multiple conductive elements for cardioversion and defibrillation	607/129		KenKnight; Bruce H. et al.
US 6146379	USPAT	20001114	Systems and methods for	606/41	600/374;	Fleischman;

A				creating curvilinear lesions in body tissue		607/101	Sidney D. et al.
US 6142994 A	USPAT	20001107		Surgical method and apparatus for positioning a diagnostic a therapeutic element within the body	606/41	606/49; 607/99	Swanson; David K. et al.
US 6132438 A	USPAT	20001017		Devices for installing stasis reducing means in body tissue	606/139	606/151	Fleischman; Sidney D. et al.
US 6129724 A	USPAT	20001010		Systems and methods for forming elongated lesion patterns in body tissue using straight or curvilinear electrode elements	606/41	606/42; 607/101	Fleischman; Sidney D. et al.
US 6123702 A	USPAT	20000926		Systems and methods for controlling power in an electrosurgical probe	606/34	606/42; 606/49	Swanson; David K. et al.
US 6115626 A	USPAT	20000905		Systems and methods using annotated images for controlling the use of diagnostic or therapeutic instruments in instruments in interior body regions	600/427	600/523	Whayne; James G. et al.
US 6113591 A	USPAT	20000905		Systems and methods for sensing sub-surface temperatures in body tissue	606/34	606/40; 606/50; 606/51	Whayne; James G. et al.
US 6107699 A	USPAT	20000822		Power supply for use in electrophysiological apparatus employing high-voltage pulses to render tissue temporarily unresponsive	307/112	307/115	Swanson; David K.
US 6106522 A	USPAT	20000822		Systems and methods for forming elongated lesion patterns in body tissue using straight or curvilinear electrode elements	606/41	600/374; 606/42; 607/122	Fleischman; Sidney D. et al.
US 6106460 A	USPAT	20000822		Interface for controlling the display of images of diagnostic or therapeutic instruments in interior body regions and related data	600/300		Panescu; Dorin et al.

US 6101409 A	USPAT	20000808		Systems and methods for analyzing biopotential morphologies in body tissue	600/510		Swanson; David K. et al.
US 6099526 A	USPAT	20000808		Electrode structure including hydrophilic material	606/41	600/374; 607/105; 607/113; 607/122; 607/99	Whayne; James G. et al.
US 6097976 A	USPAT	20000801		Catheter distal end assemblies with bonded surface coatings	600/373	600/374; 606/41	Yang; Yi et al.
US 6095150 A	USPAT	20000801		Systems and methods for locating and guiding operative elements within interior body regions	128/899	600/374; 606/34; 606/41; 607/122	Panescu; Dorin et al.
US 6088614 A	USPAT	20000711		Tissue characterization to identify an ablation site	600/510	600/374; 606/41	Swanson; David K.
US 6086532 A	USPAT	20000711		Systems for recording use of structures deployed in association with heart tissue	600/437		Panescu; Dorin et al.
US 6076012 A	USPAT	20000613		Structures for supporting porous electrode elements	604/21	606/41; 607/113; 607/122; 607/153; 607/99	Swanson; David K et al.
US 6071279 A	USPAT	20000606		Branched structures for supporting multiple electrode elements	606/41	607/101; 607/122	Whayne; James G et al.
US 6071278 A	USPAT	20000606		Tissue heating and ablation systems and methods using porous electrode structures with specified electrical resistivities	606/34	606/41; 607/105; 607/113; 607/122; 607/99	Panescu; Dorin et al.
US 6070094 A	USPAT	20000530		Systems and methods for guiding movable electrode elements within multiple-electrode structures	600/374	600/439; 600/467; 600/509; 606/34; 606/41; 607/122	Swanson; David K. et al.
US 6056745 A	USPAT	20000502		Systems and methods for obtaining desired lesion characteristics while ablating body tissue	606/42	606/31; 606/41; 607/102	Panescu; Dorin et al.

US 6053912 A	USPAT	20000425		Systems and methods for sensing sub-surface temperatures in body tissue during ablation with actively cooled electrodes	606/40	606/31; 606/34; 606/38; 606/42; 606/49; 607/102; 607/104; 607/105; 607/113; 607/99	Panescu; Dorin et al.
US 6052607 A	USPAT	20000418		Cardiac mapping and ablation systems	600/374	29/825; 606/41; 607/122	Edwards; Stuart D. et al.
US 6049732 A	USPAT	20000411		Electrophysiological interface system for use with multiple electrode catheters	600/523	600/427	Panescu; Dorin et al.
US 6047218 A	USPAT	20000404		Systems and methods for visualizing interior tissue regions	607/122	600/466	Whayne; James G. et al.
US 6047211 A	USPAT	20000404		Dual capacitor biphasic defibrillator waveform generator employing selective connection of capacitors for each phase	607/5	607/74	Swanson; David K. et al.
US 6038483 A	USPAT	20000314		Implantable conformal coil patch electrode with multiple conductive elements for cardioversion and defibrillation	607/129		KenKnight; Bruce H. et al.
US 6032079 A	USPAT	20000229		Implantable conformal coil electrode with multiple conductive elements for cardioversion and defibrillation	607/129		KenKnight; Bruce H. et al.
US 6030382 A	USPAT	20000229		Flexible tissue ablation elements for making long lesions	606/41	600/374; 606/42; 607/102	Fleischman; Sidney D. et al.
US 6027451 A	USPAT	20000222		Method and apparatus for fixing the anatomical orientation of a displayed ultrasound generated image	600/463	600/466	McGee; David L. et al.
US 6026332 A	USPAT	20000215		Implantable conformal coil patch electrode with multiple conductive	607/129		KenKnight; Bruce H. et al.

				elements for cardioversion and defibrillation			
US 6023638 A	USPAT	20000208		System and method for conducting electrophysiological testing using high-voltage energy pulses to stun tissue	600/510	606/41	Swanson; David K.
US 6022346 A	USPAT	20000208		Tissue heating and ablation systems and methods using self-heated electrodes	606/27	606/41; 607/101; 607/96	Panescu; Dorin et al.
US 6014590 A	USPAT	20000111		Systems and methods employing structures having asymmetric mechanical properties to support diagnostic or therapeutic elements in contact with tissue in interior body regions	607/122	600/374; 606/41	Whayne; James G. et al.
US 6014581 A	USPAT	20000111		Interface for performing a diagnostic or therapeutic procedure on heart tissue with an electrode structure	600/523		Whayne; James G. et al.
US 6001093 A	USPAT	19991214		Systems and methods for creating long, thin lesions in body tissue	606/41	600/374; 607/101	Swanson; David K. et al.
US 5991650 A	USPAT	19991123		Surface coatings for catheters, direct contacting diagnostic and therapeutic devices	600/374	600/372; 606/41	Swanson; David K. et al.
US 5984917 A	USPAT	19991116		Device and method for remote insertion of a closed loop	606/32	606/139; 606/144; 606/151	Fleischman; Sidney D. et al.
US 5984907 A	USPAT	19991116		Transition sleeve assembly for catheters	604/525	604/264; 604/523; 604/95.01	McGee; David et al.
US 5968040 A	USPAT	19991019		Systems and methods using asymmetric multiple electrode arrays	606/41	600/374; 607/122	Swanson; David K. et al.
US 5961513 A	USPAT	19991005		Tissue heating and ablation systems and methods using porous electrode structures	606/34	606/41; 607/105; 607/113; 607/122; 607/99	Swanson; David K. et al.
US 5954662	USPAT	19990921		Systems and methods for	600/510		Swanson;

A				acquiring endocardially or epicardially paced electrocardiograms			David K. et al.
US 5954661 A	USPAT	19990921		Tissue characterization and treatment using pacing	600/510		Greenspon; Arnold J. et al.
US 5941251 A	USPAT	19990824		Systems for locating and guiding operative elements within interior body regions	128/899	600/374; 606/34; 606/41; 607/122	Panescu; Dorin et al.
US 5935079 A	USPAT	19990810		Systems and methods for positioning multiple electrode structures in electrical contact with the myocardium	600/509	600/374; 600/381; 600/547; 607/122	Swanson; David K. et al.
US 5928228 A	USPAT	19990727		Flexible high density multiple electrode circuit assemblies employing ribbon cable	606/41	600/374; 607/122	Kordis; Thomas F. et al.
US 5925038 A	USPAT	19990720		Expandable-collapsible electrode structures for capacitive coupling to tissue	606/41	600/374; 606/34; 607/105; 607/113; 607/122; 607/99	Panescu; Dorin et al.
US 5916243 A	USPAT	19990629		Implantable conformal coil patch electrode with multiple conductive elements for cardioversion and defibrillation	607/129		KenKnight; Bruce H. et al.
US 5916163 A	USPAT	19990629		Graphical user interface for use with multiple electrode catheters	600/424	600/374	Panescu; Dorin et al.
US 5911739 A	USPAT	19990615		Structures for supporting diagnostic or therapeutic elements in internal body regions	607/122	606/41; 607/116	Kordis; Thomas F. et al.
US 5908445 A	USPAT	19990601		Systems for visualizing interior tissue regions including an actuator to move imaging element	607/122	600/466	Whayne; James G. et al.
US 5904651 A	USPAT	19990518		Systems and methods for visualizing tissue during diagnostic or therapeutic procedures	600/407	600/342; 600/373; 600/478; 607/122	Swanson; David K. et al.
US 5891136	USPAT	19990406		Expandable-collapsible	606/41	600/374;	McGee;



A				mesh electrode structures		606/34; 607/122; 607/99	David et al.
US 5879348 A	USPAT	19990309		Electrode structures formed from flexible, porous, or woven materials	606/41	600/374; 607/105; 607/113; 607/122; 607/99	Owens; Patrick M. et al.
US 5876336 A	USPAT	19990302		Systems and methods for guiding movable electrode elements within multiple-electrode structure	600/374	600/509; 606/34; 606/41; 607/122	Swanson; David K. et al.
US 5871483 A	USPAT	19990216		Folding electrode structures	606/41	600/374; 606/34; 607/105; 607/113; 607/122; 607/99	Jackson; Jerome et al.
US 5871443 A	USPAT	19990216		Cardiac mapping and ablation systems	600/374		Edwards; Stuart D. et al.
US 5868736 A	USPAT	19990209		Systems and methods to control tissue heating or ablation with porous electrode structures	606/34	606/41; 607/105; 607/113; 607/122; 607/99	Swanson; David K. et al.
US 5865791 A	USPAT	19990202		Atrial appendage stasis reduction procedure and devices	604/500	606/194	Whayne; James G. et al.
US 5860920 A	USPAT	19990119		Systems for locating and ablating accessory pathways in the heart	600/374	600/509; 606/41; 607/122	McGee; David L. et al.
US 5855592 A	USPAT	19990105		Systems and methods for multi-site cardiac defibrillation using multiple electrode structures	607/4	600/374	McGee; David et al.
US 5853411 A	USPAT	19981229		Enhanced electrical connections for electrode structures	606/41	600/374; 607/122; 607/99	Whayne; James G. et al.
US 5853409 A	USPAT	19981229		Systems and apparatus for sensing temperature in body tissue	606/31	600/374; 600/549; 606/42; 607/102	Swanson; David K. et al.
US 5848969 A	USPAT	19981215		Systems and methods for visualizing interior tissue	600/462	600/439; 600/463	Panescu; Dorin et al.

				regions using expandable imaging structures			
US 5846239 A	USPAT	19981208		Tissue heating and ablation systems and methods using segmented porous electrode structures	606/41	607/105; 607/113; 607/122; 607/99	Swanson; David K. et al.
US 5846238 A	USPAT	19981208		Expandable-collapsible electrode structures with distal end steering or manipulation	606/41	600/374; 606/34; 607/122; 607/99	Jackson; Jerome et al.
US 5840076 A	USPAT	19981124		Tissue heating and ablation systems and methods using electrode structures with distally oriented porous regions	606/34	606/41; 607/105; 607/113; 607/122; 607/99	Swanson; David K. et al.
US 5836874 A	USPAT	19981117		Multi-function electrode structures for electrically analyzing and heating body tissue	600/374	606/41; 607/122; 607/99	Swanson; David K. et al.
US 5833621 A	USPAT	19981110		Systems and methods for matching electrical characteristics and propagation velocities in cardiac tissue	600/509		Panescu; Dorin et al.
US 5830213 A	USPAT	19981103		Systems for heating and ablating tissue using multifunctional electrode structures	606/41	600/374; 607/105; 607/113; 607/122; 607/99	Panescu; Dorin et al.
US 5820591 A	USPAT	19981013		Assemblies for creating compound curves in distal catheter regions	604/95.01	604/529	Thompson; Russell B. et al.
US 5810802 A	USPAT	19980922		Systems and methods for controlling tissue ablation using multiple temperature sensing elements	606/31	606/41; 607/101	Panescu; Dorin et al.
US 5800432 A	USPAT	19980901		Systems and methods for actively cooling ablation electrodes using diodes	606/49	600/549; 606/34; 606/41; 606/42; 607/102; 607/105; 607/20; 607/99	Swanson; David K.
US 5797905 A	USPAT	19980825		Flexible tissue ablation elements for making long	606/41	607/122	Fleischman; Sidney D. et

				lesions			al.
US 5797903 A	USPAT	19980825		Tissue heating and ablation systems and methods using porous electrode structures with electrically conductive surfaces	606/34	600/374; 606/41; 607/105; 607/113; 607/122; 607/99	Swanson; David K. et al.
US 5795303 A	USPAT	19980818		Systems and methods for making time-sequential measurements of biopotentials sensed in myocardial tissue	600/509	600/510	Swanson; David K. et al.
US 5792064 A	USPAT	19980811		Systems and methods for analyzing cardiac biopotential morphologies by cross-correlation	600/510		Panescu; Dorin et al.
US 5788645 A	USPAT	19980804		Method and apparatus for event processing in biological application	600/516	600/515	Swanson; David K. et al.
US 5782826 A	USPAT	19980721		System and methods for detecting ancillary tissue near tissue targeted for ablation	606/34		Swanson; David K.
US 5769847 A	USPAT	19980623		Systems and methods for controlling tissue ablation using multiple temperature sensing elements	606/42	606/31; 606/48; 607/101	Panescu; Dorin Nmi et al.
US 5759158 A	USPAT	19980602		Systems and methods for conducting electrophysiological testing using high-voltage energy pulses to stun heart tissue	600/508		Swanson; David K.
US 5755715 A	USPAT	19980526		Tissue heating and ablation systems and methods using time-variable set point temperature curves for monitoring and control	606/31	606/42; 607/102	Stern; Roger A. et al.
US 5752518 A	USPAT	19980519		Systems and methods for visualizing interior regions of the body	600/424	600/466	McGee; David et al.
US 5740808 A	USPAT	19980421		Systems and methods for guiding diagnostic or therapeutic devices in interior tissue regions	600/424	600/585	Panescu; Dorin et al.

US 5735846 A	USPAT	19980407		Systems and methods for ablating body tissue using predicted maximum tissue temperature	606/41	606/31; 606/42; 607/102	Panescu; Dorin et al.
US 5732698 A	USPAT	19980331		Systems for examining the electrical characteristics of cardiac tissue while minimizing contact with blood within the heart	600/374	600/393; 607/122	Swanson; David K. et al.
US 5722416 A	USPAT	19980303		Systems and methods for analyzing biopotential morphologies in heart tissue to locate potential ablation sites	600/509	600/510; 607/101	Swanson; David K. et al.
US 5722403 A	USPAT	19980303		Systems and methods using a porous electrode for ablating and visualizing interior tissue regions	600/373	607/120; 607/122	McGee; David et al.
US 5722402 A	USPAT	19980303		Systems and methods for guiding movable electrode elements within multiple-electrode structures	600/374	600/393; 600/509; 606/34; 606/41; 607/122	Swanson; David K. et al.
US 5711305 A	USPAT	19980127		Systems and methods for acquiring endocardially or epicardially paced electrocardiograms	600/510	600/374	Swanson; David K. et al.
US 5702386 A	USPAT	19971230		Non-linear control systems and methods for heating and ablating body tissue	606/34	606/31; 606/38; 606/42; 606/45; 607/102	Stern; Roger A. et al.
US 5688267 A	USPAT	19971118		Systems and methods for sensing multiple temperature conditions during tissue ablation	606/41	606/31; 606/42; 606/45; 607/102; 607/122	Panescu; Dorin et al.
US 5673695 A	USPAT	19971007		Methods for locating and ablating accessory pathways in the heart	600/374	606/41; 607/101; 607/122; 607/148	McGee; David L. et al.
US 5637090 A	USPAT	19970610		Multiple electrode element for mapping and ablating heart tissue	604/95.01	607/14; 607/9	McGee; David L. et al.
US 5634938	USPAT	19970603		Defibrillator waveform	607/5	607/7;	Swanson;

A				generator for generating waveform of long duration		607/74	David K. et al.
US 5609157 A	USPAT	19970311		Systems and methods for analyzing biopotential morphologies in body tissue using iterative techniques	600/510	600/515	Panescu; Dorin et al.
US 5603732 A	USPAT	19970218		Subcutaneous defibrillation electrodes	607/129	607/148; 607/152	Dahl; Roger W. et al.
US 5601088 A	USPAT	19970211		Systems and methods for filtering artifacts from composite signals	600/510	128/901; 600/529; 600/544; 600/546; 708/322	Swanson; David K. et al.
US 5598848 A	USPAT	19970204		Systems and methods for positioning multiple electrode structures in electrical contact with the myocardium	600/508	600/374; 600/547; 607/122	Swanson; David K. et al.
US 5595183 A	USPAT	19970121		Systems and methods for examining heart tissue employing multiple electrode structures and roving electrodes	600/510	600/374; 607/122	Swanson; David K. et al.
US 5582609 A	USPAT	19961210		Systems and methods for forming large lesions in body tissue using curvilinear electrode elements	606/39	606/33; 606/45; 607/101; 607/122	Swanson; David K. et al.
US 5577509 A	USPAT	19961126		Systems and methods for examining the electrical characteristics and timing of electrical events in cardiac tissue	600/508		Panescu; Dorin N. et al.
US 5575810 A	USPAT	19961119		Composite structures and methods for ablating tissue to form complex lesion patterns in the treatment of cardiac conditions and the like	607/99	607/119; 607/122; 607/148	Swanson; David K. et al.
US 5549661 A	USPAT	19960827		Systems and methods for creating complex lesion patterns in body tissue	607/99	600/374	Kordis; Thomas F. et al.
US 5549108 A	USPAT	19960827		Cardiac mapping and ablation systems	600/381	607/122	Edwards; Stuart D. et al.

US 5546940 A	USPAT	19960820		System and method for matching electrical characteristics and propagation velocities in cardiac tissue to locate potential ablation sites	600/374	600/547; 606/27; 606/41; 607/122; 607/148; 607/96	Panescu; Dorin et al.
US 5545202 A	USPAT	19960813		Body implantable defibrillation system	607/129	607/116; 607/119	Dahl; Roger W. et al.
US 5531779 A	USPAT	19960702		Stent-type defibrillation electrode structures	607/119	600/381; 607/122; 607/5	Dahl; Roger W. et al.
US 5509419 A	USPAT	19960423		Cardiac mapping and ablation systems	600/393	606/41; 607/122	Edwards; Stuart D. et al.
US 5496362 A	USPAT	19960305		Implantable conformal coil patch electrode with multiple conductive elements for cardioversion and defibrillation	607/129		KenKnight; Bruce H. et al.
US 5494042 A	USPAT	19960227		Systems and methods for deriving electrical characteristics of cardiac tissue for output in iso-characteristic displays	600/508	600/374	Panescu; Dorin et al.
US 5485849 A	USPAT	19960123		System and methods for matching electrical characteristics and propagation velocities in cardiac tissue	600/512	600/374; 600/508; 607/119	Panescu; Dorin et al.
US 5476495 A	USPAT	19951219		Cardiac mapping and ablation systems	607/122	600/374	Kordis; Thomas F. et al.
US 5468254 A	USPAT	19951121		Method and apparatus for defibrillation using a multiphasic truncated exponential waveform	607/5		Hahn; Stephen J. et al.
US 5411525 A	USPAT	19950502		Dual capacitor biphasic defibrillator waveform generator employing selective connection of capacitors for each phase	607/5	607/74	Swanson; David K. et al.
US 5372606 A	USPAT	19941213		Method and apparatus for generating adaptive n-phasic defibrillation waveforms	607/6	607/8	Lang; Douglas J. et al.
US 5366496	USPAT	19941122		Subcutaneous shunted coil	607/132	607/119	Dahl; Roger

A				electrode			W. et al.
US 5360442 A	USPAT	19941101		Subcutaneous defibrillation electrodes	607/129	607/116; 607/119	Dahl; Roger W. et al.
US 5342407 A	USPAT	19940830		Body implantable defibrillation system	607/129	607/5	Dahl; Roger W. et al.
US 5314459 A	USPAT	19940524		Defibrillation electrode system having smooth current distribution with floating electrode	607/122	607/116; 607/119; 607/129; 607/148	Swanson; David K. et al.
US 5311874 A	USPAT	19940517		Method for tachycardia discrimination	600/518		Baumann; Lawrence S. et al.
US 5309910 A	USPAT	19940510		Cardiac mapping and ablation systems	600/381	607/122	Edwards; Stuart D. et al.
US 5271417 A	USPAT	19931221		Defibrillation electrode having smooth current distribution	607/122		Swanson; David K. et al.
US 5230337 A	USPAT	19930727		Process for implanting subcutaneous defibrillation electrodes	607/5	607/119	Dahl; Roger W. et al.
US 5203348 A	USPAT	19930420		Subcutaneous defibrillation electrodes	607/129	600/377	Dahl; Roger W. et al.
US 5111812 A	USPAT	19920512		Defibrillation electrode having smooth current distribution	607/2		Swanson; David K. et al.
US 5107834 A	USPAT	19920428		Low energy multiple shock defibrillation/cardioversion discharge technique and electrode configuration	607/5		Ideker; Raymond E. et al.
US 5090422 A	USPAT	19920225		Implantable electrode pouch	607/119	600/375	Dahl; Roger W. et al.
US 5018523 A	USPAT	19910528		Apparatus for common mode stimulation with bipolar sensing	607/2	128/902	Bach, Jr.; Stanley M. et al.